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NOTICE OF ALLOWANCE AND FEE(S) DUE

37003

7590

10/15/2010

SCHLUMBERGER-DOLL RESEARCH ATTN: INTELLECTUAL PROPERTY LAW DEPARTMENT P.O. BOX 425045 CAMBRIDGE, MA 02142 EXAMINER

DIETERLE, JENNIFER M

ART UNIT PAPER NUMBER

1759

DATE MAILED: 10/15/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/585.263	05/17/2007	Li Jiang	57.0566 US PCT	2399

TITLE OF INVENTION: ELECTRO-CHEMICAL SENSOR

	APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
_	nonprovisional	NO	\$1510	\$300	\$0	\$1810	01/18/2011

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

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If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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P.O. BOX 42504	^{/2010} SEARCH TY LAW DEPART	RTMENT		Certificate of Mailing or Transmission I hereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.						
CAMBRIDGE,	MA 02142								(Depositor's name)	
									(Signature)	
									(Date)	
APPLICATION NO.	ON NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CO			CONFI	RMATION NO.					
10/585,263 ITLE OF INVENTION	05/17/2007 ELECTRO-CHEMICA	L SENSOR	Li Jiang			51	7.0566 US PCT		2399	
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nonprovisional	NO	\$1510	\$300		\$0		\$1810		01/18/2011	
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DIETERLE, J	ENNIFER M	1759	204-416000							
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a. Applicant claim	tus (from status indicated s SMALL ENTITY statu	*		_	_		CITY status. See 37 CF			
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	CTUAL PROPERTY I	ART UNIT PAPER NUMBE			
P.O. BOX 425045 CAMBRIDGE, M.	A 02142		1759 DATE MAILED: 10/15/201	0	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 251 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 251 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/585,263	JIANG ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Jennifer Dieterle	1759		
The MAILING DATE of this communication appeal all claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT R	(OR REMAINS) CLOSED in this app or other appropriate communication IGHTS. This application is subject to	olication. If not included will be mailed in due c	d ourse. THIS	
1. This communication is responsive to <u>9/15/10</u> .				
2. The allowed claim(s) is/are <u>1,4-9 and 11-15</u> .				
 Acknowledgment is made of a claim for foreign priority ur a)	e been received. e been received in Application No cuments have been received in this	national stage applicati		
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		complying with the requ	uirements	
 A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give 			OTICE OF	
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must (a) ☐ including changes required by the Notice of Draftspers 1) ☐ hereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t 6. ☐ DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT 	son's Patent Drawing Review (PTO- s Amendment / Comment or in the C .84(c)) should be written on the drawing he header according to 37 CFR 1.121(c sit of BIOLOGICAL MATERIAL n	Office action of ngs in the front (not the d). nust be submitted. N		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☐ Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. ☐ Examiner's Comment Regarding Requirement for Deposit	5. ☐ Notice of Informal P 6. ☐ Interview Summary Paper No./Mail Dat 7. ☐ Examiner's Amendn 8. ☑ Examiner's Stateme	(PTO-413), e nent/Comment	vance	
of Biological Material	9.			

DETAILED ACTION

Allowable Subject Matter

Claims 1, 4-9 and 11-15 are allowed.

The following is an examiner's statement of reasons for allowance:

The instant application is allowable over the prior art because the instant application teaches an electrochemical sensing device comprising *two different redox* systems that are sensitive to the same species. The device also comprises a means to apply a varying potential and a means to detect peaks in a current flowing between the working and counter electrodes.

The closest prior art of record, Casimari et al. (Biosensors & Bioelectronics, 1995, Vol. 11, No. 8, pages 783-789) teach an electrochemical sensor comprising at least two redox active molecules (LOD and LDH) which are both covalently bonded to a polymer film and placed in contact with an electrode; however, the redox molecules are not sensitive to the same species. Casimari et al. utilizes the LOD enzyme to catalyze the oxidation of L-lactate to pyruvate and the second enzyme, LDH, to amplify the response by recycling the pyruvate back to L-lactate. Therefore, the redox species do not undergo a redox reaction with the same species.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably Art Unit: 1759

accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Dieterle whose telephone number is (571) 270-7872. The examiner can normally be reached on Monday thru Friday, 8am to 5pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Alexa Neckel can be reached on (571) 272-1446. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Application/Control Number: 10/585,263 Page 4

Art Unit: 1759

JMD 10/1/10

/Alexa D. Neckel/

Supervisory Patent Examiner, Art Unit 1723